

### Abstract

The invention pertains to a method of determining a colour formula for matching a selected colour measured with an electronic imaging device, which method

5 comprises the following steps:

a) an electronic imaging device is calibrated by measuring the colour signals of at least two calibration colours, the colorimetric data of each of the calibration colours being known;

b) at the same time or in a next step the selected colour is measured with 10 the aid of the electronic imaging device;

c) using a mathematical model, parameters are calculated for converting the measured colour signals of the calibration colours to the known colorimetric data;

d) using the mathematical model and the calculated parameters, the colour 15 signals of the measured selected colour are converted to colorimetric data; and

e) using a databank, the colour formula is determined of which the colorimetric data most closely matches the calculated colorimetric data of the measured selected colour.

20 The invention also comprises a method of determining a colour formula for matching a selected colour of textured materials such as special effect paints and to a method of determining the colour difference of a selected colour measured with an electronic imaging device compared to a standard colour sample.

25 The invention has the advantage that it is possible to make use of inexpensive consumer electronics. The method according to the invention also makes it possible to measure a specific attribute of the colour appearance, the so-called texture.